

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTGGGTGTGGC
CATCCCCAGGTTTCAAACCTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGC
AGGCACATGGCCGTGGCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGTGTGGAG
GCTCCCTGCTCAGTCCAGAATGGGTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTG
TGAACCTCGTCTGATTATCAGGTGCACTTGGGAGAGCTTACGGTCACACTGTCTCCCC
ACTTCTCCACTGTAAAACGGATCATCATGTACACTGGCTCTCCAGGACCACCGGGGT
CCAGTGGGGACATTGCCCTGGTGCAGCTGTCTCCCCGGTGGCCCTTTCCAGCCAG
GTCCAGCCTGTGTGCCTCCCAGAGGCCTCAGCTGACTTCTACCCTGGGATGCAGTGC
TGGGTGACTGGCTGGGGCTATACAGGGGAGGGAGAGCCTCTGAAGCCCCCATACAA
CCTTCAGGAGGCCAAAGTCTCTGTGGTGGATGTAAAGACCTGCAGCCAGGCTTACAA
TAGTCCCAATGGCAGCCTCATCCAGCCAGACATGCTATGCGCCCGGGGCCCTGGGG
ATGCCTGCCAGGATGACTCTGGAGGGGCCACTAGTCTGCCAGGTGGCTGGAACCTGG
CAGCAGGCCGGCGTTGTCAGCTGGGGTGAGGGCTGTGGCCGCCCTGACCGCCCTG
GCGTCTATGCCCCGGGTTACTGCCTATGTAAACTGGATCCACCACCACATCCCGGAAG
CAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCCTGGCTGCCCTCTTC
TGGCCAAGCCTCTTCTGCTGCTGGTCTCTGGAGTCCTGATGGCCAAGTACTGGCTG
AGCTCTCCCTCCCACGCGGCCTCGGAACCTCTGAATGAGGTGTAGCAACCAACCCAAG
TGTCTTTCTTAAATAAGTTAGTGTATTATTCAGTTTGCTTTGCCCTCCCCTCCCCTTAG
CTTTGACTTAGGAAGCCAAAGTTTTCTGCATCAGATTATTGCAACATTTAACCTGAATT
TGTAGAACGGATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

MALGPNCGILLFLAVSGCGHPQVSNSSSRIVGGHAAPAGTWPWQ

ASLRLHKVHVCGGSLLSPEWVLTAAHCFSGSVNSSDYQVHLGELTVTLSPHFSTVKRI

IMYTGSPGPPGSSGDIALVQLSSPVALSSQVQPVCLPEASADFYPGMQCWVTGWGYTG

EGEPLKPPYNLQEAKVSVDVKTCSEQAYNSPNGSLIQPDMLCARGPGDACQDDSGGPL

VCQVAGTWQQAGVVSWGEGCGRPDRPGVYARVTAYVNWIIHHIPEAGGSGMQGLPWAP

LLAALFWPSLFLLLVSGVLMKYWLSSPSHAASEL (SEQ ID NO:2)

FIGURE 1

2/6

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

ATGGCTCTGGGGCCCAACTGTGGCATCCTACTGTTTCTGGCTGTTTCTG[GGTGTGGCCA
TCCCCAGGTTTCAAACCTCGGGAAGTCGAATCGTGGGAGGGCATGCTGCCCCAGCAGGCAC
ATGGCCGTGGCAGGCTAGCCTCCGTCTGCACAAGGTGCACGTGT]GTGGAGGCTCCCTGC
TCAGTCCAGAATGGGTGCTCACAGCAGCCCACTGCTTCTCTGGGTCTGTGAACCTCGTCTG
ATTATCAGGTGCACTTGGGAGAGCTTACGGTCACACTGTCTCCCCACTT[CTCCACTGTA
AAACGGATCATCATGTACACTGGCTCTCCAGGACCACCGGGTCCAGTGGGGACATTGCC
CTGGTGCAGCTGTCTCCCCGGTGGCCCTTTCCAGCCAGGTCCAGCCTGTGTGCCCTCCCA
GAGGCCTCAGCTGACTTCTACCCTGGGATGCAGTGCTGGGTGACTGGCTGGGGCTATACA
GGGGAGGGAG]AGCCTCTGAAGCCCCCATAACAACCTTCAGGAGGCCAAAGTCTCTGTGGT
GGATGTAAAGACCTGCAGCCAGGCTTACAATAGTCCCAATGGCAGCCTCATCCAGCCAGA
CATGCTATGCGCCCGGGGCCCTGGGGATGCCTGCCAGGATGACTCTGGAGGGCCACTAGT
CTGCCAGGTGGCTGGAACCTGGCAGCAGGCCGGCGTTGTTCAGCTGGGGTGAGGGCTGTGG
CCGCCCTGACCGCCCTGGCGTCTATGCCCCGGGTACTGCCTATGTAAACTGGATCCACCA
CCACATCCCGGAAGCAGGGGGCTCAGGAATGCAAGGGCTTCCCTGGGCTCCTCTCCTGGC
TGCCCTCTTCTGGCCAAGCCTCTTCCTGCTGCTGGTCTCTGGAGTCTTGATGGCCAAGTA
CTGGCTGAGCTCTCCCTCCACGCGCCTCGGAACCTCTGAATGAGGTGTAGCAACCAACC
CAAGTGTCTTTCTTAAATAAGTTAGTGTATTTCAGTTTGCTTTGCCCCCTCCCCTCCCCT
TAGCTTTGACTTAGGAAGCCAAAGTTTTCTGCATCAGATTATTGCAACATTAAACCTGAA
TTTGTAGAACGGATGACATAAAGCAAATGGATGTCAAAAAAAAAA (SEQ ID NO:1)

Gene Sequence Structure *

164 bp

Sequence Deleted

287 bp

Size of full-length cDNA: 1122 bp



FIGURE 2A

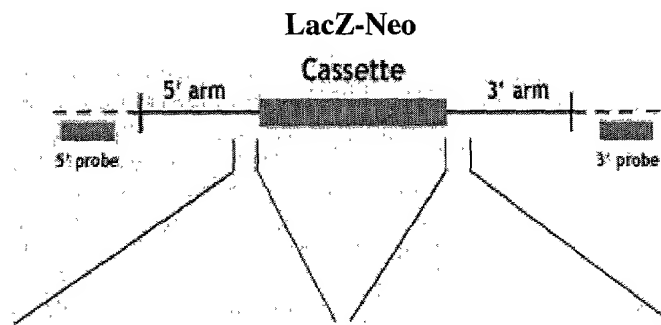
Targeting Vector* (genomic sequence)

Construct Number: 1607

Arm Length:

5': 6 kb

3': 0.7 kb



— Targeting Vector
- - - Endogenous Locus

* Not drawn to scale

5'>GGAGTCATGGAGGGCTCCCAG
AGAAAGGGCATTGAGCAGAATGCC
GGTCTCCAGATTCCCTCACCAACA
GTGTCTCCTCTGGATCAGGGTGTG
GCCATCCCCAGGTTTCAAACTCGG
GAAGTCGAATCGTGGGAGGGCATG
CTGCCCCAGCAGGCACATGGCCGT
GGCAGGCTAGCCTCCGTCTGCACA
AGGTGACGTGT<3'
(SEQ ID NO:3)

5'>CTCCACTGTAAAACGGATCAT
CATGTACACTGGCTCTCCAGGACC
ACCGGGGTCCAGTGGGGACATGTC
CCTGGTGCAGCTGTCTCCCCGGT
GGCCCTTTCCAGCCAGGTCCAGCC
TGTGTGCCTCCCAGAGGCCTCAGC
TGACTTCTACCCTGGGATGCAGTG
CTGGGTGACTGGCTGGGGCTATAC
AGGGGAGGGAG<3'
(SEQ ID NO:4)

FIGURE 2B

necropsy - body weight

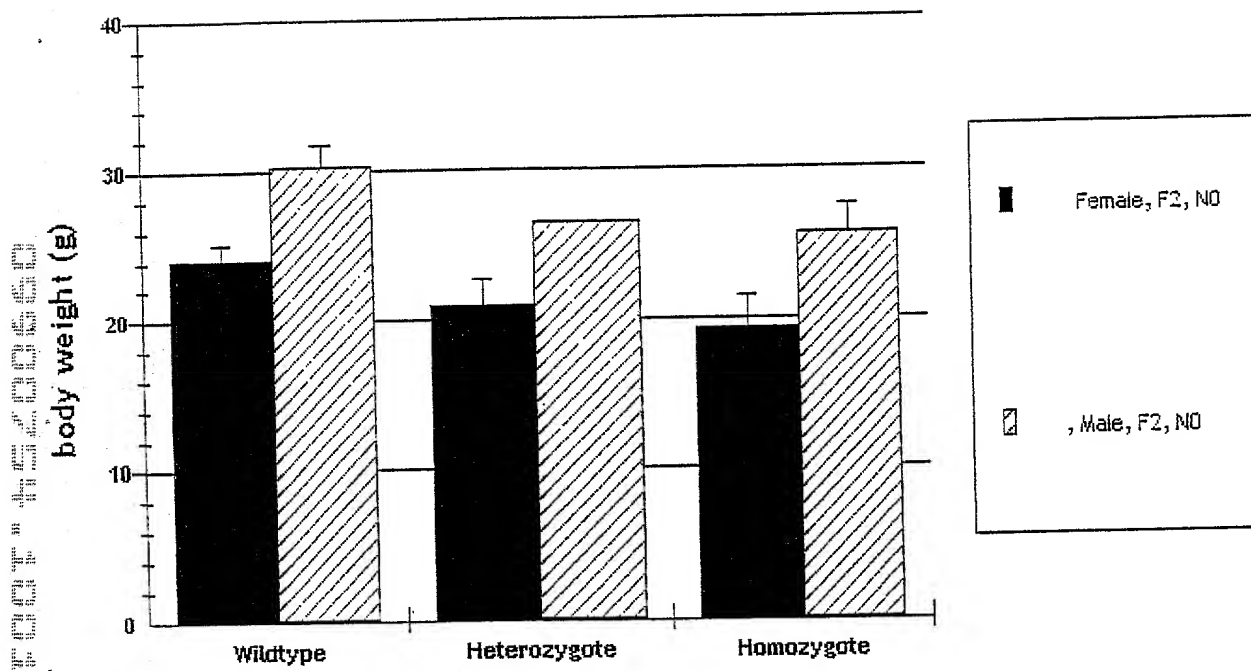


FIGURE 3

necropsy - thymus weight/body weight

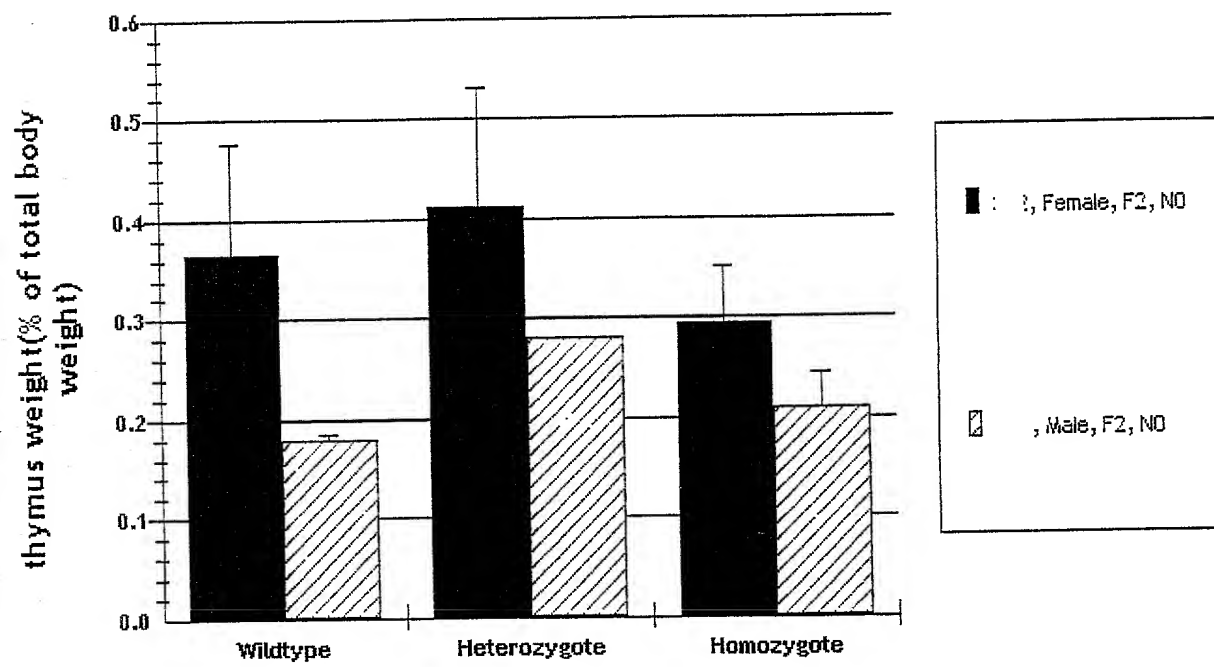


FIGURE 4

6/6

Phenotypic Data Summary - Startle Response Amplitude

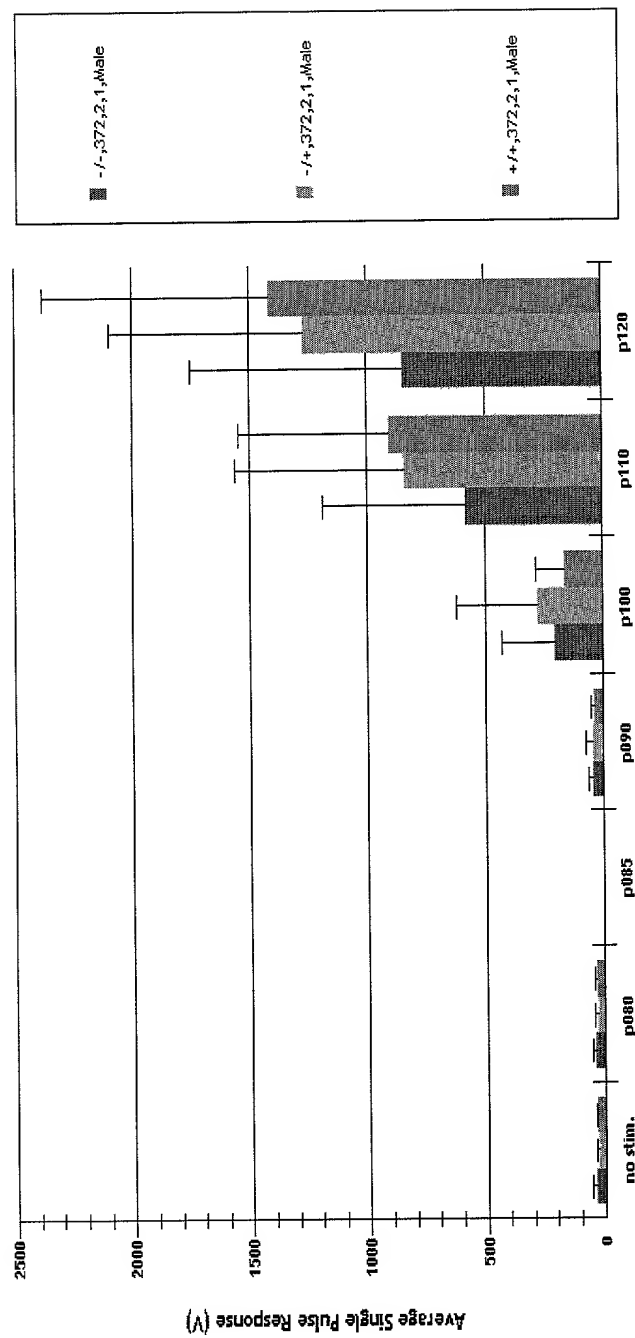


FIGURE 5